

Application No.: 10/070,719
Response dated September 7, 2006
Response to August 7, 2006 Office Communication

Amendment to the Claims

This Listing of Claims replaces all previous claim sets and Listing of Claims.

Listing of Claims

1-50. Canceled.

51. (Currently Amended) ~~A method for enhancing the efficacy of cross species nuclear transfer involving a mammalian differentiated donor cell and a recipient animal oocyte from another species with respect to the donor cell A method of producing embryonic or stem-like cells comprising the following steps:~~

(i) inserting a desired differentiated human or mammalian donor cell or cell nucleus into an enucleated animal oocyte, wherein such oocyte is derived from a different animal species than the human or mammalian cell under conditions suitable for the formation of a nuclear transfer (NT) unit, and wherein comprising the step of incorporating mitochondria or mitochondrial DNA derived from cell or cells of said donor cell's species is incorporated into said oocyte;

(ii) activating the resultant nuclear transfer unit;

(iii) culturing said activated nuclear transfer unit until greater than the 2-cell developmental stage; and

(iv) culturing cells obtained from said cultured NT units to obtain embryonic or stem-like cells.

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52. (Previously presented) The method according to claim 51, wherein said mitochondria or mitochondrial DNA is derived from the cells of the donor.

53. (Previously presented) The method according to claim 51, wherein said donor cell is a human donor cell.